What is claimed is:

1. A combination of gateways using wireless application protocol (WAP) for mediating between a mobile device and network resources, comprising:

a plurality of gateways connecting to said network and having access to said network resources; and

a computer apparatus connecting to said gateways in parallel

    for receiving a message from said mobile device;

    for forwarding said message for further processing to one of said gateways that is selected according to a predetermined rule;

    for receiving the response of said selected gateway to said message; and

    for forwarding said response to said mobile device.

2. The combination of gateways according to claim 1, wherein the network utilizes hypertext transfer protocol (HTTP).

3. The combination of gateways according to claim 1, wherein said network resources reside in a server.

4. The combination of gateways according to claim 1, wherein said computer apparatus connects to each of said gateways through a plurality of ports respectively.

5. The combination of gateways according to claim 1, wherein said computer apparatus dynamically creates a full-duplex channel linking said mobile device and said selected gateway when said message is connection-oriented.

6. The combination of gateways according to claim 1, wherein said computer apparatus creates a half-duplex channel linking said mobile device and said selected gateway when said message is connectionless.

7. The combination of gateways according to claim 1, wherein said rule is based on a comparison between the service loadings of each of said gateways.

1 8. The combination of gateways according to claim 1, wherein said rule is to

2 select for said message the least loaded one of said gateways.

1 9. The combination of gateways according to claim 1, wherein said gateways

2 are preferably low-priced personal computers.

1 10. A method for integrating a plurality of gateways that mediate between a

2 mobile device utilizing first transmission protocol and network resources utilizing

3 second transmission protocol, comprising:

4 providing said gateways connecting to said network and having access to said

5 network resources; and

6 providing a computer apparatus connecting to said gateways in parallel

7 for receiving a message from said mobile device;

8 for forwarding said message for further processing to one of said gateways

9 that is selected according to a predetermined rule;

10 for receiving the response of said selected gateway to said message; and

11 for forwarding said response to said mobile device.

1 11. The method according to claim 10, further comprising providing a plurality of

2 ports through which said computer apparatus connects to each of said

3 gateways respectively.

1 12. The method according to claim 10, wherein said rule is based on a

2 comparison between the service loadings of each of said gateways.

1 13. The method according to claim 10, wherein said rule is to select the least

2 loaded gateway among said gateways.

1 14. The method according to claim 10, wherein said gateways are preferably

2 low-priced personal computers.

1 15. The method according to claim 10, wherein said first transmission protocol

2 is wireless application protocol (WAP).

1 16. The method according to claim 10, wherein said second transmission
2 protocol is hypertext transfer protocol (HTTP).

1 17. A method for operating a plurality of gateways connecting in parallel to a
2 computer apparatus that mediate, as one gateway, between a mobile device
3 utilizing first transmission protocol and network resources utilizing second
4 transmission protocol, comprising:
5 providing on said computer apparatus hardware and software components
6   for receiving a message from said mobile device;
7   for forwarding said message for further processing to one of said gateways
8   that is selected according to a predetermined rule;
9   for receiving the response of said selected gateway to said message; and
10   for forwarding said response to said mobile device.

1 18. The method according to claim 17, wherein said rule is to select the least
2 loaded gateway among said gateways.

1 19. The method according to claim 17, wherein said gateways are preferably
2 low-priced personal computers.

1 20. The method according to claim 17, wherein said first transmission protocol
2 is wireless application protocol (WAP).